

SEQUENCE LISTING

<110> National Institute of Advanced Industrial Science

<120> Expression vector for fused gene and Method for
producing immobilized enzyme

<130> PH-1407

<140>

<141>

<150> JP2000/354396

<151> 2000-11-21

<150> JP2001/190524

<151> 2001-06-22

<160> 14

<170> PatentIn Ver. 2.1

<210> 1

<211> 341

<212> PRT

<213> *Saccharomyces cerevisiae*

<400> 1

Met Gln Tyr Lys Lys Ser Leu Val Ala Ser Ala Leu Val Ala Thr Ser
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Leu Ala Ala Tyr Ala Pro Lys Asp Pro Trp Ser Thr Leu Thr Pro Ser
20 25 30

Ala Thr Tyr Lys Gly Gly Ile Thr Asp Tyr Ser Ser Thr Phe Gly Ile
35 40 45

09989754396

Ala Val Glu Pro Ile Ala Thr Thr Ala Ser Ser Lys Ala Lys Arg Ala
50 55 60

Ala Ala Ile Ser Gln Ile Gly Asp Gly Gln Ile Gln Ala Thr Thr Lys
65 70 75 80

Thr Thr Ala Ala Ala Val Ser Gln Ile Gly Asp Gly Gln Ile Gln Ala
85 90 95

Thr Thr Lys Thr Lys Ala Ala Ala Val Ser Gln Ile Gly Asp Gly Gln
100 105 110

Ile Gln Ala Thr Thr Lys Thr Thr Ser Ala Lys Thr Thr Ala Ala Ala
115 120 125

Val Ser Gln Ile Gly Asp Gly Gln Ile Gln Ala Thr Thr Lys Thr Lys
130 135 140

Ala Ala Ala Val Ser Gln Ile Gly Asp Gly Gln Ile Gln Ala Thr Thr
145 150 155 160

Lys Thr Thr Ala Ala Ala Val Ser Gln Ile Gly Asp Gly Gln Ile Gln
165 170 175

Ala Thr Thr Lys Thr Thr Ala Ala Ala Val Ser Gln Ile Gly Asp Gly
180 185 190

Gln Ile Gln Ala Thr Thr Asn Thr Thr Val Ala Pro Val Ser Gln Ile
195 200 205

Thr Asp Gly Gln Ile Gln Ala Thr Thr Leu Thr Ser Ala Thr Ile Ile
210 215 220

Pro Ser Pro Ala Pro Ala Pro Ile Thr Asn Gly Thr Asp Pro Val Thr
225 230 235 240

05988975-4404

Ala Glu Thr Cys Lys Ser Ser Gly Thr Leu Glu Met Asn Leu Lys Gly
 245 250 255

Gly Ile Leu Thr Asp Gly Lys Gly Arg Ile Gly Ser Ile Val Ala Asn
 260 265 270

Arg Gln Phe Gln Phe Asp Gly Pro Pro Pro Gln Ala Gly Ala Ile Tyr
 275 280 285

Ala Ala Gly Trp Ser Ile Thr Pro Glu Gly Asn Leu Ala Ile Gly Asp
 290 295 300

Gln Asp Thr Phe Tyr Gln Cys Leu Ser Gly Asn Phe Tyr Asn Leu Tyr
 305 310 315 320

Asp Glu His Ile Gly Thr Gln Cys Asn Ala Val His Leu Gln Ala Ile
 325 330 335

Asp Leu Leu Asn Cys
 340

<210> 2

<211> 413

<212> PRT

<213> *Saccharomyces cerevisiae*

<400> 2

Met Gln Tyr Lys Lys Thr Leu Val Ala Ser Ala Leu Ala Ala Thr Thr
 1 5 10 15

Leu Ala Ala Tyr Ala Pro Ser Glu Pro Trp Ser Thr Leu Thr Pro Thr
 20 25 30

Ala Thr Tyr Ser Gly Gly Val Thr Asp Tyr Ala Ser Thr Phe Gly Ile

0998975.1101
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Gln Val Gln Ala Ala Thr Thr Thr Ala Ser Val Ser Thr Lys Ser Thr		
85	90	95
Ala Ala Ala Val Ser Gln Ile Gly Asp Gly Gln Ile Gln Ala Thr Thr		
100	105	110
Lys Thr Thr Ala Ala Ala Val Ser Gln Ile Gly Asp Gly Gln Ile Gln		
115	120	125
Ala Thr Thr Lys Thr Thr Ser Ala Lys Thr Thr Ala Ala Ala Val Ser		
130	135	140
Gln Ile Ser Asp Gly Gln Ile Gln Ala Thr Thr Thr Thr Leu Ala Pro		
145	150	155 160
Lys Ser Thr Ala Ala Ala Val Ser Gln Ile Gly Asp Gly Gln Val Gln		
165	170	175
Ala Thr Thr Thr Thr Leu Ala Pro Lys Ser Thr Ala Ala Ala Val Ser		
180	185	190
Gln Ile Gly Asp Gly Gln Val Gln Ala Thr Thr Lys Thr Thr Ala Ala		
195	200	205
Ala Val Ser Gln Ile Gly Asp Gly Gln Val Gln Ala Thr Thr Lys Thr		
210	215	220
Thr Ala Ala Ala Val Ser Gln Ile Gly Asp Gly Gln Val Gln Ala Thr		

09989975 112101

225					230						235					240
Thr	Lys	Thr	Thr	Ala	Ala	Ala	Ala	Val	Ser	Gln	Ile	Gly	Asp	Gly	Gln	Val
				245						250						255
Gln	Ala	Thr	Thr	Lys	Thr	Thr	Ala	Ala	Ala	Val	Ser	Gln	Ile	Thr	Asp	
				260				265					270			
Gly	Gln	Val	Gln	Ala	Thr	Thr	Lys	Thr	Thr	Gln	Ala	Ala	Ser	Gln	Val	
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Ser	Asp	Gly	Gln	Val	Gln	Ala	Thr	Thr	Ala	Thr	Ser	Ala	Ser	Ala	Ala	
	290					295					300					
Ala	Thr	Ser	Thr	Asp	Pro	Val	Asp	Ala	Val	Ser	Cys	Lys	Thr	Ser	Gly	
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Thr	Leu	Glu	Met	Asn	Leu	Lys	Gly	Gly	Ile	Leu	Thr	Asp	Gly	Lys	Gly	
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Arg	Ile	Gly	Ser	Ile	Val	Ala	Asn	Arg	Gln	Phe	Gln	Phe	Asp	Gly	Pro	
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Pro	Pro	Gln	Ala	Gly	Ala	Ile	Tyr	Ala	Ala	Gly	Trp	Ser	Ile	Thr	Pro	
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Asp	Gly	Asn	Leu	Ala	Ile	Gly	Asp	Asn	Asp	Val	Phe	Tyr	Gln	Cys	Leu	
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Ser	Gly	Thr	Phe	Tyr	Asn	Leu	Tyr	Asp	Glu	His	Ile	Gly	Ser	Gln	Cys	
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<210> 3

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificial
Sequence

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<210> 4

<211> 31

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificial
Sequence

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<210> 5

<211> 35

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificial
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TOTAL 52668660

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<210> 6

<211> 47

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificial
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<210> 7

<211> 35

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificial
Sequence

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<210> 8

<211> 35

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificial

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Sequence

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<210> 9

<211> 39

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificial
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<210> 10

<211> 42

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificial
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<210> 11

<211> 38

<212> DNA

<213> Artificial Sequence

TOTAL 546860

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<223> Description of Artificial Sequence:Artificial
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<210> 12

<211> 68

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificial
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ccaagtgg 68

<210> 13

<211> 49

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificial
Sequence

<400> 13

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099995-126850

<210> 14

<211> 38

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Artificial
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<400> 14

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38

TOPTAT" 52688660